SEGMENTED CEMENT BOND TOOL

Segmented Cement Bond Tool (SCBT) is a sectoral cement bond evaluation tool that operates in scanning and integral modes at two bands of frequencies of elastic waves. Dual-frequency scanning mode allows for quantitative assessment of the cement bond integrity around a casing.

Applications

- Comprehensive segmented cement bond quality evaluation (internal/external contacts)

Advantages

- 8 sectors accurate cement bond integrity to casing / formation
- Compatible with an entire range of North Side tools
- Memory and SRO

Tool Specifications	
Probes configuration LF	T20.5T1-1.0R (int-scan)
Probes configuration HF	Tscan(1-8)0.4Rscan(1-8)
Interval time of elastic wave propagation	120-600 μs/m
Decay of elastic waveforms	3-30 dB
Elastic waves amplitude at 45deg sectors	40 dB
Interval time of elastic wave propagation at 45deg sectors	100-500 μs/m
Measurements range between 1 sector of the scanning probe and the apsidal plane of the well	0-360 deg
Effective casing diameter	5.5-7.0 in (140-178 mm)
Maximum operating temperature	120°C (248°F)
Maximum operating pressure	11,600 PSI (80 MPa)
Tool length	15.8 ft (4.8 m)
Tool OD	3.94 in (100 mm)
Tool weight	330 lbs (150 kg)
Surface read-out / Memory	Both
Operational time in memory mode	24 hrs
H_2S resistance	6% standard (25% optional)